

**CLAIM AMENDMENTS:**

1. (withdrawn) A waterproof seal feeding machine for feeding cylindrical waterproof seal members to a predetermined fitting position on an axis line of an electric wire to fit a seal member over an outer periphery of an end portion of the electric wire, the waterproof seal feeding machine comprising:

a seal cavity defining member including a pair of holders which oppose to each other with regard to the axis line and which open and close at the fitting position, the holder pair being so arranged as to define a seal cavity for receiving the seal member at the fitting position in a locked state in which the seal member is prevented from moving toward the electric wire when the holder pair close at the fitting position;

a passage forming member which forms a feeding passage extending along the axis line at such a position as to oppose an end portion of the electric wire with regard to the fitting position in order to feed the seal member into the seal cavity defined by the holder pair with such a posture as to receive the electric wire by the compressed air;

a locking mechanism which locks the seal member in cooperation with the holder pair of the seal cavity defining member and which unlocks the seal member after insertion of the electric wire; and

a control unit which controls the seal cavity defining member and the locking mechanism so that the seal member fed into the seal cavity is brought to a locked state.

2. (withdrawn) The waterproof seal feeding machine according to claim 1, wherein

the feeding passage is formed in the passage forming member and extends coaxially along the electric wire,

the waterproof seal feeding machine further comprising a pair of lock members which oppose to each other with regard to the axis line, the lock members open and close at the fitting position, the lock members having respectively enclosing recesses which enclose the seal member held in the seal cavity when the lock members close to each other.

3. (withdrawn) The waterproof seal feeding machine according to claim 1, wherein

the passage forming member is formed with the feeding passage, a lock member passage merging with a leading end of the feeding passage, and a slider passage being communicated with a merging portion which is formed by the feeding passage and the lock member passage being communicated with the seal cavity,

the locking mechanism includes a lock member which is reciprocatably located in the lock member passage formed in the passage forming member so as to push and lock the seal member fed into the seal cavity,

the waterproof seal feeding machine further comprising:

a slider which reciprocatably and slidably moves in the slider passage in such a way that the slider gets inside and retracts away from the feeding passage, and

an urging member which urges the slider toward the feeding passage, wherein

the slider includes a main body which fills the merging portion of the feeding passage and fills the lock member passage when the main body moves into the feeding passage, a feeding passage defining surface which is continuously connecting the feeding passage and a tip of the lock member passage, and a cam surface which receives the

force from a tip of the lock member so that the slider main body moves beneath the feeding passage against an urging force of the urging member when the lock member is moved toward the holder pair.

4. (withdrawn) The waterproof seal feeding machine according to claim 1, wherein

the locking mechanism includes a rod-like lock member which reciprocatably slides inside a lock member passage formed in the passage forming member extending coaxially along the axis line,

the passage forming member is formed with the feeding passage which is so configured as to branch out from the lock member passage at a downstream end in a seal feeding direction and to extend in a direction oblique to the axis line, and

the control unit controls the locking mechanism to actuate in such a manner as to retract the lock member away from the seal cavity in response to feeding of the seal member through the feeding passage.

5. (withdrawn) The waterproof seal feeding machine according to claim 1, wherein

the passage forming member is formed with the feeding passage coaxially along the axis line,

the locking mechanism includes a rod-like lock member in the form of an arc shape for reciprocating through a lock member passage formed in the passage forming member, the lock member passage being branched out from a downstream end of the feeding passage in a seal member feeding direction and extending in an arc shape, and

the control unit controls the locking mechanism to actuate in such a manner as to retract the lock member away from the seal cavity in response to feeding of the seal member through the feeding passage.

6. (withdrawn) The waterproof seal feeding machine according to claim 1, wherein the control unit controls the holder pair in such a manner that a clearance is defined between the holder pair for exhaling the compressed air while the seal member is held in the seal cavity, and controls the seal cavity defining member so that the holder pair close after holding the seal member in the seal cavity.

7. (withdrawn) The waterproof seal feeding machine according to claim 1, wherein the holder pair and the passage forming member are arranged at such a position as to define a clearance between the holder pair and the feeding passage for exhaling the compressed air.

8. (withdrawn) The waterproof seal feeding machine according to claim 1, wherein

the passage forming member includes a support shaft extending in such a direction as to move the holder pair reciprocatably with regard to the axis line which open and close at the fitting position, and

the holder pair is so mounted on the support shaft as to open and to close,

the waterproof seal feeding machine further comprising a holder driving mechanism detachably attached to the holder pair.

9. (withdrawn) The waterproof seal feeding machine according to claim 8, wherein the passage forming member and the locking mechanism are integrally provided on a common base member.

10. (withdrawn) The waterproof seal feeding machine according to claim 1, wherein

each of the holder pair is formed with a through-opening in a bottom of the seal cavity, the through-opening having a rhombus shape in cross section, and

the control unit controls the seal cavity defining member to actuate the holder pair in such a manner that a clearance defined by the holder pair in a closest position thereof is set in conformity to an outer diameter of the electric wire.

11. (withdrawn) The waterproof seal feeding machine according to claim 10, wherein

the locking mechanism includes a lock member which pushes the seal member in the seal cavity, and

the lock member is formed with a recess for enclosing a part of the seal member in the seal cavity to align the seal member coaxially along the axis line of the electric wire.

12. (withdrawn) The waterproof seal feeding machine according to claim 1, further comprising an air compressor which supplies the compressed air into the feeding passage, wherein the control unit controls the air compressor in such a manner as to feed the compressed air into the feeding passage so that the compressed air tightly urges the seal member in a bottom of the seal cavity at least during a time from feeding the seal member into the seal cavity to locking the seal member by the locking mechanism.

13. (currently amended) A method for fitting cylindrical waterproof seal members over end portions of an electric wire, comprising:

a seal cavity defining step of defining a seal cavity for receiving a cylindrical waterproof seal member at a predetermined fitting position on an axis line of an electric wire;

a feeding step of feeding the seal member by compressed air along the axis line and into the seal cavity at the fitting position with such a posture as to receive the electric wire ~~by the compressed air~~;

a locking step of bringing the seal member to a locked state in the seal cavity ~~in which so that~~ the seal member is prevented from moving ~~toward the electric wire along the axis line~~;

an inserting step of inserting the electric wire into the seal member along the axis line while the seal member is in the locked state; and

a releasing step of releasing the seal member from the locked state after the inserting step.

14. (original) The method according to claim 13, wherein the seal cavity is defined by moving a holder pair toward each other to close the fitting position with regard to the axis line, the holder pair are slightly moved away from each other to define an air exhaling path for exhaling the air penetrated in the seal cavity through the feeding passage while the seal member is held in the seal cavity.

Claim 15-18 (canceled).

19. (new) The method according to claim 13, wherein the feeding step feeds the seal member in a first direction along the axis line, and wherein the inserting step inserts the electric wire in a second direction along the axis line and opposed to the first direction.

20. (new) The method according to claim 13, wherein the locking step is conducted by using a rod-like lock member having a substantially circular shape in cross section to accommodate the seal member in such a way to allow the end portion of the electric wire to insert the seal member in the locked state.

21. (new) A method for fitting substantially cylindrical waterproof seal members over end portions of an electric wire, comprising:

defining a seal cavity for receiving a cylindrical waterproof seal member, the seal cavity being on an axis line;

feeding the seal member by compressed air directly into the seal cavity on the axis line so that the seal member is fed in a posture along the axis line to receive the electric wire;

locking the seal member in the seal cavity so that the seal member is substantially prevented from moving;

aligning the electric wire so that an axis of the wire at the end portion of the wire extends substantially along the axis line; inserting the electric wire along the axis line and into the seal member; and

releasing the seal member from the locked state after inserting the electric wire.

22. (new) The method according to claim 21, wherein the step of locking the seal member is conducted by using a rod-like lock member having a substantially circular shape in cross section to accommodate the seal member in such a way to allow the end portion of the electric wire to insert the seal member in the locked state.